

Water Resources

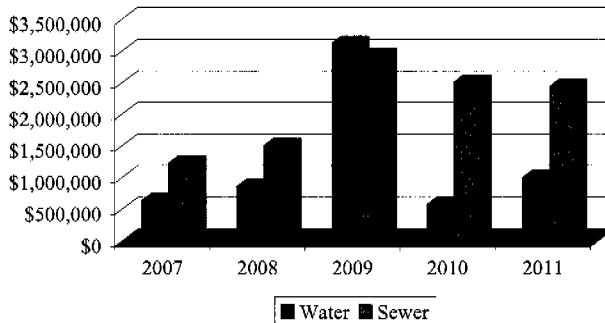
Capital projects within this category are associated with improvements to and expansion of the City's Water and Sewer Treatment and Distribution systems. A variety of projects will be funded over the five year CIP Period. These include the maintenance and upgrading of the water and sewer treatment plant facilities and equipment, automated meter reading equipment, improvements to a sewer lift station, water and sewer line rehabilitation and line extensions into newly annexed areas. Project expenditures recommended for the CIP Period include:

Fiscal Year	Recommended Expenditures	
	Water Fund	Sewer Fund
2007	\$635,000	\$1,227,000
2008	\$860,000	\$1,504,000
2009	\$3,125,000	\$2,940,000
2010	\$575,000	\$2,515,000
2011	\$1,000,000	\$2,440,000

Revenues

The primary source of funding is utility sales revenues from water and sewer services. Some additional revenue is received from investment income and fund balance appropriation as needed. Large projects are funded through long-term debt, such as the proceeds from lease agreements or from State Revolving Loan Fund. The use of these additional sources lessens the need to utilize utility current revenue contributions.

Water Resources Capital Projects Funding



Water Resources

Capital Improvement Program Highlights

- Both the Water and Sewer capital projects include projects for the extension of water and sewer lines in annexed areas.
- Continued progress on making improvements at pump stations.
- Continued funding for automated meter equipment project for water and sewer meters.
- Continued sewer line rehabilitation Project and manhole replacement program.
- Continued funding for the installation of a supervisory control and data acquisition (SCADA) system for the Water Resources Department.
- Provided funding for the construction of Equipment Storage Sheds to house Water/Sewer Services equipment.
- Provided funding for re-lining ductile iron water line pipes.
- Provided funding for replacement of equipment at the wastewater treatment oxygen plant.
- Provided funding to upgrade the pump station and collection system which serves the Town of Sharpsburg (the Town of Sharpsburg is expected to pay half the cost).

Previously Funded Projects

Project	Status
Laboratory Expansion	In-Progress
Biodigester Aerator Replacement	In-Progress
Water and Sewer Outfall extensions	In-Progress
Increased Water Plant security	In-Progress
Reservoir Water Plant Conversion	In-Progress
Electronic meter installation	In-Progress
Wastewater Treatment dechlorination	Completed
Oversized Main Agreement projects for Sewer and Water Utility	In-Progress
SCADA monitoring system	In-Progress

Water Resources - Water

FUNDING SOURCES:	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
GRANTS	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000
CAPITAL RESERVES	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DEBT PROCEEDS	\$3,445,000	\$0	\$0	\$2,300,000	\$50,000	\$200,000	\$2,550,000
GENERAL FUND CONTRIBUTION	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WATER FUND CONTRIBUTION	\$951,500	\$635,000	\$860,000	\$825,000	\$525,000	\$550,000	\$3,395,000
TOTAL FUNDING	\$4,396,500	\$635,000	\$860,000	\$3,125,000	\$575,000	\$1,000,000	\$6,195,000

PROJECT DESCRIPTIONS:

Sunset Water Treatment Plant							
Upgrade Sunset Water Plant Elevator	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0
Reservoir Water Treatment Plant							
Reservoir Plant Electrical Conversion	\$1,052,000	\$0	\$0	\$0	\$0	\$0	\$0
Filter Surface Sweeps Replacement	\$120,000	\$0	\$0	\$0	\$0	\$0	\$0
Repairs to Finished Water Line	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0
RWTP Effluent Dechlorination	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0
Raw Water Pretreatment Study	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0
Bulk Chemical Storage Tanks	\$0	\$40,000	\$40,000	\$0	\$0	\$0	\$80,000
Raw Water Reservoirs/Dams							
Reservoir Water Quality Evaluation	\$0	\$70,000	\$50,000	\$50,000	\$50,000	\$0	\$220,000
Hydrilla Management	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$150,000
Distribution System Mains							
Water Main Extension Program	\$2,238,000	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Water System Improvements	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
Neighborhood Fire Protection - Water	\$0	\$100,000	\$120,000	\$125,000	\$125,000	\$0	\$470,000
Petitioned Water Line Extensions	\$219,100	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Electronic Meters Installation - Water	\$198,500	\$100,000	\$100,000	\$2,300,000	\$0	\$0	\$2,500,000
NCDOT Payment, Battletown Flyover	\$69,000	\$0	\$0	\$0	\$0	\$0	\$0
Oversized Water Main Agreements	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Annexation Water Line Extensions	\$0	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
Oak Level Road / Nashville Connection	\$0	\$0	\$0	\$0	\$50,000	\$450,000	\$500,000
Distribution System Tanks and Pumps							
Water Resources SCADA System	\$110,000	\$75,000	\$50,000	\$0	\$0	\$0	\$125,000
Water Tank Maintenance	\$0	\$0	\$0	\$200,000	\$0	\$200,000	\$400,000
Water Maintenance Services							
Re-line Ductile Iron Pipe Water Lines	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Heavy Equipment Storage Building	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
TOTAL PROJECTS	\$4,396,600	\$635,000	\$860,000	\$3,125,000	\$575,000	\$1,000,000	\$6,195,000

Water Resources - Water

Division: Water Services Category: 6

Number: 8009

Title: Upgrade Sunset Water Plant Elevator

Project Description:

While the existing freight elevator at the Sunset Water Treatment Plant was partially reworked during the 1990 plant rehabilitation, it does not meet most existing elevator safety codes. It is grandfathered under these codes, but still is required to undergo an annual inspection. Additionally, it incurred other damage during the Floyd flooding. This proposed project will repair the flood damage, and replace the elevator's controls, safety features, and some parts suffering from age-related deterioration.

	PRIOR YEAR	2006-07	2007-08	2008-09	2009-10	2010-11	2007-11
PROJECT	COST	BUDGET	PLAN	PLAN	PLAN	PLAN	PLAN TOTAL
Planning							\$0
Construction	\$100,000						\$0
Equipment/Furnishing							\$0
TOTAL	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt	\$100,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0
Estimated Annual Operating Cost							
Start up	\$	-		Recurring	\$	-	

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service.

Project Status:

Expect bids to be taken within next month. Expect construction to begin in the 1st quarter of 2006. Installment financing was secured in FY2005.

Water Resources - Water

Division: Water Services Category: 7

Number:

8070

Title: Reservoir Plant Electrical Conversion

Project Description:

Funds for this project will be used to convert the Reservoir Water Treatment Plant electrical system from 4160 volts to a 480 volts electrical system. This system has been converted to 480 volts power for the raw water pumps located at the dam. The finished water pumps in the treatment plant should also be converted to 440 volts power.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition	\$1,052,000						\$0
Construction							\$0
Equipment/Furnishing							\$0
TOTAL	\$1,052,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$7,000						\$0
Debt	\$1,045,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$1,052,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Operating Start up \$ - Recurring \$ -

Justification:

When the Reservoir Water Treatment Plant was constructed in 1972, 4160 volts power was considered standard for large electrical motors. As such, a 4160 volts motor was installed. Pump motors and switchgear are now 30-years old and replacement parts are difficult to obtain. With the conversion to lower voltage, the in-plant maintenance electrician will be able to work on the system. [High voltage maintenance is presently done by outside contractors.] Equipment will also be standardized at both water plants. Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-3 in that it provides for promoting an adequate and safe supply of water for the city and neighboring counties.

Project Status:

Project bids are in and recommendations sent to Council for December meeting with projected completion date of 4th quarter of 2006. Installment financing was secured in FY2005.

Water Resources - Water

Division: Water Services Category: 7

Number:

8045

Title: Filter Surface Sweeps Replacement

Project Description:

Funds will be used to replace the surface sweeps on the Reservoir Water Treatment Plant filters. Surface sweeps improve the efficiency of filter backwashing by breaking up any "crusts" or "mudballs" which may have formed on the surface of the filter media during the filtration period.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$120,000						\$0
Equipment/Furnishing							\$0
TOTAL	\$120,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt	\$120,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$120,000	\$0	\$0	\$0	\$0	\$0	\$0
Estimated Annual Operating							
Start up	\$	-		Recurring	\$	-	

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Project Status:

Project is complete. Awaiting for final payment request from INCO. Installment financing was secured in FY2005.

Water Resources - Water

Division: Water Services Category: 7

Number: 8045

Title: Repairs to Finished Water Line

Project Description:

Funds will be used to repair the finished water line where it passes through the WTP building wall. At construction this point was installed as a packed joint to absorb vibration and flex. Over thirty years the joint has expanded to the point it leaks. Repairs have been made once, but now a complete rebuild needs to be made.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$125,000						\$0
Equipment/Furnishing							\$0
TOTAL	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$125,000						\$0
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0
Estimated Annual Operating Start up							
	\$	-		Recurring	\$	-	

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Project Status:

This project has been included in the Reservoir Plant Electrical Conversion Project.

Water Resources - Water

Division: Water Services Category: 1

Number: 8045

Title: RWTP Effluent Dechlorination

Project Description:

Funds will be used to install chemical addition facilities to dechlorinate WTP effluent. New NPDES permit limits free chlorine discharges to the waters of the state to 28 ppb (the same as WWTP). Sodium bisulfite or sulfur dioxide will be used for dechlorination. Sunset Ave. WTP, for the time being, will discharge decanted water to the WWTP.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition	\$10,000						\$0
Construction	\$90,000	\$0					\$0
Equipment/Furnishing							\$0
TOTAL	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$100,000	\$0					\$0
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Operating (Start up) \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Project Status:

Engineering of project was awarded to The Wooted Company. Installation of equipment will begin in the 1st quarter of 2006.

Water Resources - Water

Division: Water Services

Category: 1 / 11

Number:

8044

Title: Raw Water Pretreatment Study

Project Description:

This study will look at additional methods to remove dissolved organic carbon from raw water before flocculation. This change is required to meet the continuing reductions in limits on trihalomethanes (THM) and halo-acetic acids (HAA) formation. Unless raw water dissolved organic carbon (DOC) is reduced to a minimum, chlorinated by-products are produced that exceed the finished water limits. Other regulations investigated were the surface water treatment rules for control of crypto and giardia.

Based on this study several expensive changes may need to be made. (1) Both plants to operate 24/7 (2) Clearwell changes at RWTP and a new clearwell at SWTP (3) UV disinfection to comply with cryptosporidium rules. These changes may cost as much as \$10,000,000 by the end of this planning period. See "Rocky Mount Long Term Compliance Study" by Hazen and Sawyer May 2005.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition	\$65,000						\$0
Construction	\$0						\$0
Equipment/Furnishing	\$0						\$0
TOTAL	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue	\$0						\$0
Enterprise Revenue	\$65,000						\$0
Debt	\$0						\$0
Capital Reserves	\$0						\$0
Grants/Other	\$0						\$0
TOTAL	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Opers Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service.

Project Status:

Study completed and report is available. New Regulations from EPA for Phase 2 LT2 of the DBP rule are coming out in January 2006. These project may be required depending on the new limits and or regulatory requirements. For further information please refer to "Rocky Mount Long Term Compliance Study" by Hazen and Sawyer May 2005. Copy of this report are available in the Water Resources Directors office and in the Water Treatment Superintendents office. Actual cost \$27,500.

Water Resources - Water

Division: Water Services Category: 2

Number:

Title: Bulk Chemical Storage Tanks

Project Description:

This project would replace the two (2) fiberglass 20,000 gal bulk Ferric Sulfate storage tanks at the Tar River Water Treatment Plant. Tanks have been in service since 1974 when the Tar River WTP was built. Tanks are constructed of fiberglass and have received regular maintenance and inspections. However time and the weather has taken its toll on the tanks. We have had one minor failure of one of the Ferric Sulfate bulk storage. Tanks are contained within a berm but a failure could shut the treatment plant down until repairs could be made.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction		\$40,000	\$40,000				\$80,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$40,000	\$40,000	\$0	\$0	\$0	\$80,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue		\$40,000	\$40,000				\$80,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$40,000	\$40,000	\$0	\$0	\$0	\$80,000

Estimated Annual Operating Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Water Resources - Water

Division: Water Services Category: 11

Number: 8030

Title: Reservoir Water Quality Evaluation

Project Description:

The objective of this project is to assess current water-quality conditions in the Tar River Reservoir and selected tributaries and to establish a database documenting changes in water-quality conditions. This database will be used to aid in defending and supporting programs designed to protect and maintain water quality in the Rocky Mount water plants watershed supply areas. The reservoir area is the fastest-growing development area of Nash County. Presently twenty-seven separate subdivisions are situated along the banks of the reservoir. All these subdivisions use septic tanks for waste disposal. In addition, the number of large-animal operations using land application of wastes continues to increase. These operations present the possible problem of increased pollutants entering the reservoir from the river. The proposed water-quality evaluation will establish a baseline that will serve as an early warning of reservoir contamination. Costs will be shared with the United States Geological Service.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition	\$0	\$70,000	\$50,000	\$50,000	\$50,000		\$220,000
Construction							\$0
Equipment/Furnishing							\$0
TOTAL	\$0	\$70,000	\$50,000	\$50,000	\$50,000	\$0	\$220,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$0	\$70,000	\$50,000	\$50,000	\$50,000		\$220,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$70,000	\$50,000	\$50,000	\$50,000	\$0	\$220,000

Estimated Annual Operating Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-3 in that it provides for promoting an adequate and safe supply of water for the city and neighboring counties.

Project Status:

Water Resources - Water

Division: Water Services Category: 2

Number:

8094

Title: Hydrilla Management

Project Description:

An invasive species of water plant called Hydrilla has been imported into the Saponi Creek arm of the reservoir. If left alone, this water plant will spread to all parts of the reservoir clogging navigation and adding to the difficulty of treating the water. Chemical treatment and the use of sterile grass eating carp have been suggested as ways to hinder the spread of the "weed" Funds are to budgeted for efforts to control and eventually eradicate this plant.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$0						\$0
Equipment/Furnishing		\$50,000	\$50,000	\$50,000			\$150,000
TOTAL	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$150,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue		\$50,000	\$50,000	\$50,000			\$150,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$150,000

Estimated Annual Operating C Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-3 in that it provides for promoting an adequate and safe supply of water for the city and neighboring counties.

Water Resources - Water

Division: Water Services Category: 9

Number: 8049

Title: Water Main Extension Program

Project Description:

The proposed water mains will provide water service and fire protection to rapidly developing areas within the City of Rocky Mount and its Extra-Territorial Jurisdiction (ETJ). Proposed projects within the expanded ETJ include the extension of water mains on Hunter Hill Road, Hart Farm Road, Old Carriage Road, and Oak Level Road. Projects to provide service to areas within the existing city limits include main extensions on Dalewood Drive, Freer Drive, Lewy Lane, Gulfside Court, Allen Street, and Kingston Avenue, as well as in the Benvenue Forest Subdivision.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition			\$10,000	\$10,000	\$10,000	\$10,000	\$40,000
Construction	\$2,238,000		\$40,000	\$40,000	\$40,000	\$40,000	\$160,000
Equipment/Furnishing							\$0
TOTAL	\$2,238,000	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$58,000		\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Debt	\$2,180,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$2,238,000	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000

Estimated Annual Operating C Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgecombe Counties.

Project Status:

Installment financing has been secured in FY2005 for \$2,180M. Financing is for the following:
 Kingston Ave/Allen St \$155,350, Edgecombe County Water \$322,000, Nash County Water \$186,500, Hunter Hill/Old Battleboro Rd \$800,000, NC43/Rosewood \$507,500, Old Wilson Rd/Blandwood \$70,000, plus engineering fees \$71,400 and easements \$67,250.
 Projects completed are Kingston Ave/Allen Street, Edgecombe County and Nash County water. Hunter Hill/Old Battleboro and NC43/Rosewood should be completed by the end of fiscal year 2006.

Water Resources - Water

Division: Water Services

Category: 9

Number:

Title: Water System Improvements

Project Description:

These proposed improvements will provide water service to rapidly developing areas within the City of Rocky Mount Water and Sewer Service Area, as identified in the Water Master Plan. Projects include extension of water mains on Cox Ave, NC 43 Bypass, and Old Rocky Mount Battleboro road. The proposed mains will augment flow in existing mains and provide increased fire protection. The project in FY 09 would make changes in the piping at the Gold Rock Tank to improve water quality in the area.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction				\$50,000			\$50,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue				\$50,000			\$50,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-1 in that it provides for planning service line extensions and replacement consistent with the Comprehensive Plan.

Water Resources - Water

Division: Water Services Category:

6

Number:

8406

Title: Neighborhood Fire Protection - Water

Project Description:

This proposed program would eliminate 2" galvanized water lines replacing them with 6" mains that would extend service life, reduce the number of leaks, and increase fire protection for the affected areas. The proposed areas for this one-time project are the 5X5 block area between Vance St and Old Wilson Rd, just south of the railroad tracks (FY 07), Gainor and Denzel St in the Battleboro area (FY 08), the Beale St corridor and along the side streets off Beale Street (FY 09), and the Holly St - Highland Ave and Norfolk St areas (FY 10).

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$0	\$100,000	\$120,000	\$125,000	\$125,000		\$470,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$100,000	\$120,000	\$125,000	\$125,000	\$0	\$470,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$0	\$100,000	\$120,000	\$125,000	\$125,000		\$470,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$100,000	\$120,000	\$125,000	\$125,000	\$0	\$470,000

Estimated Annual Operating & Start up

\$ -

Recurring

\$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-1 in that it provides for planning service line extensions and replacement consistent with the Comprehensive Plan.

Water Resources - Water

Division: Water Services Category: 1

Number: 8381

Title: Petitioned Water Line Extensions

Project Description:

Funds for this project will provide for the extension of water lines into newly annexed areas for water service and fire protection, as approved by the City Council through the petition process. A contingency is provided that projects which cannot be delayed until the following fiscal year may be petitioned and ordered.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$219,100	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Equipment/Furnishing							\$0
TOTAL	\$219,100	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$219,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$219,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000

Estimated Annual Operating Cos Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-1 in that it provides for planning service line extensions and replacement consistent with the Comprehensive Plan.

Project Status:

Projects completed this budget year include water lines along Elizabeth Lane and Wesleyan Blvd.

Water Resources - Water

Division: Water Services Category: 11

Number:

8090

Title: Electronic Meters Installation - Water

Project Description:

This pilot project will fund the installation of electronic water meters in conjunction with electronic gas and electric meters. Should the project prove successful, all water meters would be changed to electronic. Cost are shared with Sewer Fund: 55% Water Fund / 45% Sewer Fund. Approximately 26,600 meters will be replaced at a cost of \$170 per meter including installation.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$22,000	\$20,000	\$20,000	\$200,000	\$0		\$240,000
Equipment/Furnishing	\$176,500	\$80,000	\$80,000	\$2,100,000	\$0		\$2,260,000
TOTAL	\$198,500	\$100,000	\$100,000	\$2,300,000	\$0	\$0	\$2,500,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$198,500	\$100,000	\$100,000				\$200,000
Debt				\$2,300,000	\$0		\$2,300,000
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$198,500	\$100,000	\$100,000	\$2,300,000	\$0	\$0	\$2,500,000

Estimated Annual Operating Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Project Status:

Planning for the project is underway.

Water Resources - Water

Division: Water Services Category: 6

Number:

8391

Title: NCDOT Payment, Battleboro Flyover

Project Description:

With the construction of the Battleboro Flyover, the North Carolina Department of Transportation (NC DOT) must relocate some water mains that conflict with the construction of the project. Under the terms of the Municipal agreement, the city must reimburse the NC DOT for the cost of the utility relocation.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning							\$0
Construction	\$69,000						\$0
Equipment/Furnishing							\$0
TOTAL	\$69,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$69,000						\$0
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$69,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Operating (Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-3 in that it provides for promoting an adequate and safe supply of water for the city and neighboring counties.

Project Status:

The NC DOT has begun the work on this project.

Division: Water Services Category: 9 Number: 8390

Project Description:

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000

Justification:

Project Status:

Water Resources - Water

Division: Water Services Category: 1

Number:

8402

Title: **Annexation Water Line Extensions**

Project Description:

Funds for this project will provide for extension of water lines into newly annexed areas thereby extending water service and fire protection, as mandated by statutes.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning		\$0	\$0	\$0	\$0	\$0	\$0
Construction		\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue		\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000

Estimated Annual Operating (Start up	\$	-	Recurring	\$	-
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Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgecombe Counties.

Project Status:

Water Resources - Water

Division: Water Services Category: 6

Number: 8405

Title: Oak Level Road / Nashville Connection

Project Description:

This project would extend the existing water main from the Halifax Road to Old Spring Hope Road. This would provide a second feed to the Town of Nashville. This project would also include a new 750,000 gallon elevated water storage tank. Under this proposal, the Town of Nashville would be obligated to pay 1/2 of the cost of the project through grants or revenue.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition					\$50,000		\$50,000
Construction						\$450,000	\$450,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$0	\$50,000	\$450,000	\$500,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt					\$50,000	\$200,000	\$250,000
Capital Reserves							\$0
Grants/Other						\$250,000	\$250,000
TOTAL	\$0	\$0	\$0	\$0	\$50,000	\$450,000	\$500,000

Estimated Annual Operating C: Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgecombe Counties.

Water Resources - Water

Division: Water Services Category: 8

Number: 8010

Title: Water Resources SCADA System

Project Description:

Project funds will provide for evaluation, specifications, and installation of a supervisory control and data acquisition (SCADA) system for the Water Resources Department. This system will provide remote monitoring, data acquisition, and control at water tanks, water pumping stations, and remote areas of the treatment plants. Monitoring of these areas at present is only by personnel visitation. The SCADA system will provide the capability of more continuous monitoring in these remote areas.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition	\$10,000						\$0
Construction							\$0
Equipment/Furnishing	\$100,000	\$75,000	\$50,000				\$125,000
TOTAL	\$110,000	\$75,000	\$50,000	\$0	\$0	\$0	\$125,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$110,000	\$75,000	\$50,000				\$125,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$110,000	\$75,000	\$50,000	\$0	\$0	\$0	\$125,000

Estimated Annual Operating Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-2 in that it provides for insuring regulatory permit compliance.

Project Status

SCADA project is on going. Scada system is available at both water treatment plants to view all seven (7) water tanks and the three (3) booster pump stations. Next phase of this project will be install SCADA at both water treatment plants to monitor the treatment process at both water treatment plants and bulk chemical storage.

Water Resources - Water

Division: Water Services

Category: 7

Number:

8050

Title: Water Tank Maintenance

Project Description:

This project funds the repainting of the city's overhead storage water tanks. The proposed schedule approximates the lifetime of the paint and allows for periodic inspection and repair. Tank painting is scheduled for Marigold (FY 08-09), Paul St. (FY 10-11), Airport and Nash Tech in future years.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning							\$0
Construction				\$200,000		\$200,000	\$400,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$200,000	\$0	\$200,000	\$400,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue				\$200,000		\$200,000	\$400,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$200,000	\$0	\$200,000	\$400,000

Estimated Annual Operating	Start up	\$	-	Recurring	\$	-
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Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service.

Project Status:

Marigold Tank was last painted in 1985.

Water Resources - Water

Division: Water Services Category:

2

Number:

8387

Title: Re-line Ductile Iron Pipe Water Lines

Project Description:

This project in the first years will provide funds for relining the 60 year-old water lines in Swealton Heights, Rose Street and Washington Streets.. The lining rehabilitation of the lines, which will cost about \$35 per foot, will prevent corrosion and subsequent discoloration of the water. When completed, the lines should have an additional 40-60 years of life.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

Estimated Annual Operating (Start up

\$ -

Recurring

\$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-1 in that it provides for planning service line extensions and replacement consistent with the Comprehensive Plan.

Status:

Completed project on West Haven Blvd. and Washington St. this year.

Water Resources - Water

Division: Water Services

Category: 7

Number:

Title: Heavy Equipment Storage Building

Project Description:

A second equipment storage building is proposed for storing of backhoes, etc. out of the weather. This building is contingent on results of the study of Albemarle St. facilities.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction			\$100,000				\$100,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue			\$100,000				\$100,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
Est. Annual Operating Costs:	Start up	\$	-	Recurring	\$	-	

Justification:

Equipment now spend off duty hours uncovered in the weather.

Project Status:



Water Resources - Sewer

	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
FUNDING SOURCES:							
Grants	\$0	\$0	\$100,000	\$0	\$165,000	\$285,000	\$550,000
Capital Reserves	\$0	\$0	\$0	\$145,000	\$0	\$340,000	\$485,000
Debt	\$6,219,000	\$65,000	\$290,000	\$1,765,000	\$1,750,000	\$1,285,000	\$5,155,000
General Fund Contribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sewer Fund Contribution	\$1,047,000	\$1,227,000	\$1,259,000	\$1,240,000	\$755,000	\$870,000	\$5,351,000
TOTAL FUNDING	\$7,266,000	\$1,292,000	\$1,649,000	\$3,150,000	\$2,670,000	\$2,780,000	\$11,541,000
PROJECT DESCRIPTIONS:							
Wastewater Treatment Plant							
Clarifier Steel	\$349,000	\$0	\$0	\$0	\$0	\$0	\$0
WWTP Road Paving	\$0	\$0	\$60,000	\$0	\$0	\$0	\$60,000
BioSolids Digester Aerators	\$3,795,000	\$0	\$0	\$0	\$0	\$0	\$0
Laboratory Expansion	\$975,000	\$0	\$0	\$0	\$0	\$0	\$0
Return Sludge Pumps	\$90,000	\$0	\$0	\$0	\$0	\$0	\$0
Replace Internal Recycle Pumps	\$0	\$72,000	\$64,000	\$0	\$0	\$0	\$136,000
Additions to WWTP Gen Sets	\$20,000	\$215,000	\$0	\$0	\$0	\$0	\$215,000
Oxygen Plant Thermal Swing Drier	\$0	\$0	\$0	\$0	\$900,000	\$0	\$900,000
Oxygen Plant Main Air Compressor	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000
Collection System/Mains							
Outfall Extension Program - Sewer	\$1,185,000	\$0	\$0	\$0	\$0	\$0	\$0
Petition Line Extensions	\$250,000	\$200,000	\$200,000	\$100,000	\$100,000	\$100,000	\$700,000
Oversized Sewer Main Agreements	\$82,000	\$125,000	\$125,000	\$50,000	\$50,000	\$50,000	\$400,000
Electronic Meters Installation - Sewer	\$90,000	\$90,000	\$90,000	\$1,700,000	\$0	\$0	\$1,880,000
NCIDOT Payment, Battleboro Flyover	\$85,000	\$0	\$0	\$0	\$0	\$0	\$0
Dirt Street Sewer Extensions	\$25,000	\$25,000	\$0	\$0	\$0	\$0	\$25,000
Annexation Sewer	\$0	\$0	\$100,000	\$200,000	\$200,000	\$100,000	\$600,000
Grape Branch Sewer	\$0	\$0	\$0	\$0	\$0	\$180,000	\$180,000
Jeffreys Court Sewer Project	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000
ReRouting of Moore's Lift Sta.	\$0	\$0	\$0	\$0	\$100,000	\$1,000,000	\$1,100,000
Pump Stations							
Sewer Lift Station Generators	\$30,000	\$30,000	\$45,000	\$60,000	\$60,000	\$60,000	\$255,000
Sharpsburg Collection Upgrade	\$0	\$0	\$0	\$0	\$330,000	\$570,000	\$900,000
Gold Rock Lift Station Rehab	\$0	\$0	\$0	\$0	\$70,000	\$0	\$70,000
Fenner Rd Lift Sta. Upgrade/ Oversize	\$0	\$0	\$285,000	\$0	\$0	\$0	\$285,000
Lift Station SCAIDA Project	\$0	\$60,000	\$50,000	\$50,000	\$0	\$0	\$160,000
Sewer Maintenance Services							
Sewer Rehabilitation Program	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
Equipment Replacement - Sewer	\$65,000	\$145,000	\$210,000	\$155,000	\$340,000	\$155,000	\$1,005,000
Equipment Storage Sheds	\$0	\$0	\$0	\$0	\$90,000	\$0	\$90,000
Manhole Rehabilitation Program - Sewer	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
NC-97 Outfall Evaluation	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Technical Services							
Water Quality Evaluation	\$0	\$40,000	\$50,000	\$50,000	\$50,000	\$0	\$190,000
Total Organic Carbon Analyzer	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
TOTAL PROJECTS	\$7,266,000	\$1,227,000	\$1,504,000	\$2,940,000	\$2,515,000	\$2,440,000	\$10,626,000

Water Resources - Sewer

Division: Sewer Services Category: 7 Number:

Title: **Clarifier Steel**

Project Description:

This project involves replacement of the support steel in circular clarifiers with stainless steel. The existing steel was found to be in very poor shape when clarifier center columns were replaced.

	PRIOR YEAR	2006-07	2007-08	2008-09	2009-10	2010-11	2007-11
PROJECT	COST	BUDGET	PLAN	PLAN	PLAN	PLAN	PLAN TOTAL
Planning							\$0
Construction							\$0
Equipment/Furnishing	\$349,000						\$0
TOTAL	\$349,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt	\$349,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$349,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-1 in that it provides for utility master planning for expansion and maintenance needs.

Project Status:

Project has been bid and contract let.

Water Resources - Sewer

Division: Sewer Category: 10 Number:

Title: WWTP Road Paving

Project Description:

This project will continue the repaving of roads within the Wastewater Treatment Plant (WWTP). Light duty roads were built in 1980 when plant was constructed. Sub-grade needs work as well as repaving roads surfaces.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction			\$60,000				\$60,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$60,000	\$0	\$0	\$0	\$60,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue			\$60,000				\$60,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$60,000	\$0	\$0	\$0	\$60,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-1 in that it provides for utility master planning for expansion and maintenance needs.

Project Status:

Project will be coordinated with city street re-paving bids to obtain the best prices.

Water Resources - Sewer

Division: Sewer Category: 7 Number: 8842

Title: BioSolids Digester Aerators

Project Description:

Existing digester aerators and mixers have been maintenance problems since installation. Because these pieces of mechanical equipment have submerged electric motors, they require expensive mechanical seals and bearings. These large pieces of equipment must be completely removed from the digesters and decontaminated before maintenance. Annual maintenance expenses have exceeded \$20,000 to keep these vital pieces of equipment in operation. This figure includes a contractual service plus the force-account maintenance labor spent keeping them in operation. In addition, there rarely is a time when all aerators and mixers are in service, limiting the effectiveness of the digesters in preparing biosolids for land application.

It is proposed to install a system without submerged motors and bearings increasing system reliability and lowering maintenance expense.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$1,195,000						\$0
Equipment/Furnishing	\$2,600,000						\$0
TOTAL	\$3,795,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$100,000						\$0
Debt	\$3,695,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$3,795,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-2 in that it provides for insuring regulatory permit compliance.

Project Status:

Engineering evaluation of options has been completed and design begun. A revolving loan with the state has been secured in FY06 for \$3,695,000.

Water Resources - Sewer

Division: Sewer Category: 5 Number: 8801

Title: Laboratory Expansion

Project Description:

This project will fund the expansion of laboratory space and offices needed to accommodate additional technicians, more types of analyses and a much larger pretreatment program. This work was planned as a part of the 1993 expansion, but deleted to reduce project cost. Other foreseeable changes include HVAC improvements and installation of vestibules to reduce heat transfer during the summer and winter.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning							\$0
Construction	\$975,000						\$0
Equipment/Furnishing							\$0
TOTAL	\$975,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$75,000						\$0
Debt	\$900,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$975,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Project Status:

Design has been completed and bids taken. Installment financing was scoured in FY2005.

Water Resources - Sewer

Division: Sewer Category: 5 / 9 Number: 8844

Title: Return Sludge Pumps

Project Description:

Sludge pumps for C&D treatment trains are rotary lobe pumps. They operate with variable speed motors and a designed max pumping rate of 1700 gallons per minute (gpm). Due to cavitation from the piping design and wear on the pumps, pumping rate is limited to 1100gpm. The cavitation also contributes to the pump wear. Current life is 3-4 years per pump with a rebuild cost of \$35,000 per pump. It is important that these pumps operate at their designed capacity in order to provide the needed flexibility for recycling sludge to the basins from the clarifiers, thus maintaining the necessary sludge blanket depth (quantity of bacteria) to treat the food and nutrients being fed into the system from the city dischargers.

Project proposes a detailed study of the piping design to propose improvements for the pump station which may include changes in the type of pump and/or changes in piping in the station.

	PRIOR YEAR	2006-07	2007-08	2008-09	2009-10	2010-11	2007-11
PROJECT	COST	BUDGET	PLAN	PLAN	PLAN	PLAN	PLAN TOTAL
Planning/Acquisition							\$0
Construction							\$0
Equipment/Furnishing	\$90,000						\$0
TOTAL	\$90,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt	\$90,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$90,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-2 in that it provides for insuring regulatory permit compliance.

Project Status:

Engineering evaluation of options is completed and design has begun. Installment financing was secured in FY2005.

Water Resources - Sewer

Division: Sewer Category: 6 / 7 Number:

Title: Replace Internal Recycle Pumps

Project Description:

Internal sludge recycle pumps in the C&D treatment trains were installed in the early 1990's. These four pumps recycle sludge to the head of the treatment system to increase solids content and assist in creating the conditions necessary for Nitrogen removal. They are located inside the sealed treatment tanks and as such are subject to heat, fumes and moisture. Past six month repair costs have been about \$15,000. It is proposed to replace these pumps with sludge pumps installed outside the basins as they are in A&B trains. Exterior installation will make the pumps available for maintenance and remove them from the corrosive conditions.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition		\$8,000					\$8,000
Construction		\$4,000	\$4,000				\$8,000
Equipment/Furnishing		\$60,000	\$60,000				\$120,000
TOTAL	\$0	\$72,000	\$64,000	\$0	\$0	\$0	\$136,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue		\$72,000	\$64,000				\$136,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$72,000	\$64,000	\$0	\$0	\$0	\$136,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-2 in that it provides for insuring regulatory permit compliance.

Project Status:

Project in early planning stages.

Water Resources - Sewer

Division: Sewer Category: 12 Number:

Title: Additions to WWTP Gen Sets

Project Description:

In order for the WWTP generators to meet the requirements of the City's contracts with ElectraCities and the Power Agency, it will be necessary to provide for additional operational purpose. It is proposed to use the waste heat from the generators to warm the plant process water. Warm water is more conducive to a high level of biological activity in the aeration basins.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition	\$20,000						\$0
Construction		\$215,000					\$215,000
Equipment/Furnishing							\$0
TOTAL	\$20,000	\$215,000	\$0	\$0	\$0	\$0	\$215,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$20,000	\$215,000					\$215,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$20,000	\$215,000	\$0	\$0	\$0	\$0	\$215,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Meet PURPA requirements for use of generators other than for emergencies.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 8 Number: 8502

Title: Oxygen Plant Thermal Swing Drier

Project Description:

This project will provide funds for the purchase of a non-mechanical drier for the Waste Water Treatment Plant Oxygen Plant. Existing plant equipment works through 2 heat exchangers with a valve mechanically switching from one to the other as the heat exchanger in use becomes blocked by moisture removed as ice from the feed air. Switching can cause system upsets. The replacement will use 2 towers with molecular sieves to remove the moisture. Regeneration will occur less often and not cause plant pressure swings.

	PRIOR YEAR	2006-07	2007-08	2008-09	2009-10	2010-11	2007-11
PROJECT	COST	BUDGET	PLAN	PLAN	PLAN	PLAN	PLAN TOTAL
Planning							\$0
Construction							\$0
Equipment/Furnishing					\$900,000		\$900,000
TOTAL	\$0	\$0	\$0	\$0	\$900,000	\$0	\$900,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt					\$900,000		\$900,000
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$0	\$900,000	\$0	\$900,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Improvement in plant operations. Change will reduce amount of mechanical equipment. Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service

Project Status:

Water Resources - Sewer

Division: Sewer Category: 8 Number:

Title: Oxygen Plant Main Air Compressor

Project Description:

Funds for this project will be provided to purchase, install, and activate a spare air compressor at the Wastewater Treatment Plant oxygen plant.

The city presently has two compressors. One is a piece of original plant equipment. The other is a rebuilt compressor from the '90's.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning							\$0
Construction							\$0
Equipment/Furnishing				\$200,000			\$200,000
TOTAL	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue				\$200,000			\$200,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Project Status:

Water Resources - Sewer

Division: Sewer Category: 10 Number: 8595

Title: Outfall Extension Program - Sewer

Project Description:

The proposed sewer mains will provide gravity sewer service to rapidly developing areas within the City of Rocky Mount Water and Sewer Service Area and to areas without gravity sewer service available in the city. Projects for FY06 will include:

- J. P. Taylor Phases 1 and 2 which will provide sewer service to South Church Street
- Allen Street - Kingston Road
- Leggett Park Sewer Pump Station
- Leggett Park Gravity Sewer

Project for FY07 is Westry Crossing

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$1,185,000						\$0
Equipment/Furnishing							\$0
TOTAL	\$1,185,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt	\$1,185,000						\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$1,185,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-3 in that it provides for sewer line upgrades and replacement to minimize overflows and infiltration in wet weather, minimizing the chance for treatment plant overloading.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 7 Number: 8590

Title: Petition Line Extensions - Sewer

Project Description:

This project will fund sewer line extensions petitioned for and approved by the City Council. A contingency is provided for the ordering of projects that can not be delayed until the following fiscal year. Projects to be constructed in FY 07 includes Woodruff/Medlin Rd sewer (\$150,000) and Viverette (\$50,000). FY08 is for Shore Drive sewer.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$250,000	\$200,000	\$200,000	\$100,000	\$100,000	\$100,000	\$700,000
Equipment/Furnishing							\$0
TOTAL	\$250,000	\$200,000	\$200,000	\$100,000	\$100,000	\$100,000	\$700,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$250,000	\$200,000	\$200,000	\$100,000	\$100,000	\$100,000	\$700,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$250,000	\$200,000	\$200,000	\$100,000	\$100,000	\$100,000	\$700,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgecombe Counties.

Project Status:

Projects completed this budget year include sewer lines on Adamsville Court, (\$50,000.), Raleigh St. (\$15,000.), and Woodruff Rd. (\$140,000.).

Water Resources - Sewer

Division: Sewer Category: 9 Number: 8596

Title: Oversized Sewer Main Agreements

Project Description:

As a requirement for development, developers must extend sewer mains. The city, based on its future needs, may require the developer to install a larger size main than needed for the development. In such cases, the city will enter into an Oversize Main Agreement with the developer in which the city agrees to pay the difference in cost between the main needed for development and the one it requires. Proposed for '07 is Sunset MHP \$125M. For '08 are Sunset MHP \$125M.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	20107-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$82,000	\$125,000	\$125,000	\$50,000	\$50,000	\$50,000	\$400,000
Equipment/Furnishing							\$0
TOTAL	\$82,000	\$125,000	\$125,000	\$50,000	\$50,000	\$50,000	\$400,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$82,000	\$125,000	\$125,000	\$50,000	\$50,000	\$50,000	\$400,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$82,000	\$125,000	\$125,000	\$50,000	\$50,000	\$50,000	\$400,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgecombe Counties.

Project Status:

Oversized Main Agreement completed this year include Maple Creek Sewer.

Water Resources - Sewer

Division: Sewer Category: 11 Number:

Title: Electronic Meters Installation - Sewer

Project Description:

This project will share with the Water Fund the cost of installation of electronic water meters in conjunction with electronic gas and electric meters. Should the project prove successful, all water meters would be changed to electronic. Cost are shared with Water Fund: 55% Water Fund / 45% Sewer Fund.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$18,000	\$18,000	\$18,000	\$200,000			\$236,000
Equipment/Furnishing	\$72,000	\$72,000	\$72,000	\$1,500,000			\$1,644,000
TOTAL	\$90,000	\$90,000	\$90,000	\$1,700,000	\$0	\$0	\$1,880,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$90,000	\$90,000	\$90,000				\$180,000
Debt				\$1,700,000			\$1,700,000
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$90,000	\$90,000	\$90,000	\$1,700,000	\$0	\$0	\$1,880,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Project Status:

Water Resources - Sewer

Division: Sewer Category: 6 Number: 8597

Title: NCDOT Payment, Battleboro Flyover

Project Description:

With the construction of the Battleboro Flyover, the NC DOT must relocate some sewer mains that conflict with the construction of the project. Under the terms of the Municipal agreement, the city must reimburse the NC DOT the cost of the relocation.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$85,000						\$0
Equipment/Furnishing							\$0
TOTAL	\$85,000	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$85,000						\$0
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$85,000	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-1 in that it provides for utility master planning for expansion and maintenanc needs.

Project Status:

Design for the outfall began in 1998. Easement acquisitions are underway. Construction began in 2003.

Water Resources - Sewer

Division: Sewer Category: 10 Number:

Title: Dirt Street Sewer Extensions

Project Description:

This project will provide for the extension of sewers in dirt streets before they are paved as part of the city program to eliminate all unpaved streets in the city.

	PRIOR YEAR	2006-07	2007-08	2008-09	2009-10	2010-11	2007-11
PROJECT	COST	BUDGET	PLAN	PLAN	PLAN	PLAN	PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$25,000	\$25,000					\$25,000
Equipment/Furnishing							\$0
TOTAL	\$25,000	\$25,000	\$0	\$0	\$0	\$0	\$25,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$25,000	\$25,000					\$25,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$25,000	\$25,000	\$0	\$0	\$0	\$0	\$25,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgecombe Counties.

Project Status:

Spring Street - FY06

Swift Road - FY07

Water Resources - Sewer

Division: Sewer Category: 9 Number: 8703

Title: Annexation Sewer

Project Description:

As the city annexes property, it must make sewer service available to those newly annexed areas. This proposed project will provide funds for the sewer main work necessary to provide such service. The locations of the mains have not yet been determined.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction			\$100,000	\$200,000	\$200,000	\$100,000	\$600,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$100,000	\$200,000	\$200,000	\$100,000	\$600,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue			\$100,000	\$200,000	\$200,000	\$100,000	\$600,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$100,000	\$200,000	\$200,000	\$100,000	\$600,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgcombe Counties.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 10 Number: 8594

Title: Grape Branch Sewer

Project Description:

This project will provide for the extension of the Grape Branch 12" sewer line approximately 2,200 feet from the end of the existing line to Beechwood Drive. This project will provide gravity sewer service to the area Beechwood Drive area.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction						\$180,000	\$180,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$180,000	\$180,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue						\$180,000	\$180,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$180,000	\$180,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgecombe Counties.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 10 Number:

Title: Jeffreys Court Sewer Project

Project Description:

This project would extend a gravity sewer up Jeffreys Court that would provide gravity sewer service to homes along Jeffreys Court as well as to those properties fronting Benvenue Road. Homes along Jeffreys Road have failing septic tanks and need gravity sewer service.

PROJECT	PRIOR YEAR COST	2006-2007 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction				\$100,000			\$100,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue				\$100,000			\$100,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-1 in that it provides for planning service line extensions and replacement consistent with the Comprehensive Plan.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 9 Number:

Title: ReRouting of Moore's Lift Sta.

Project Description:

Moore's (#3) sewer lift station is reaching capacity. It discharges south on Church St to #2 and #1 lift sta. It is proposed to divert flow from this station east under the RR tracks and then follow the fall of the land in the most economical routing to discharge directly to the NC97 lift station. Estimated cost will exceed \$1,000,000

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition					\$100,000		\$100,000
Construction						\$1,000,000	\$1,000,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$0	\$100,000	\$1,000,000	\$1,100,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt					\$100,000	\$1,000,000	\$1,100,000
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$0	\$100,000	\$1,000,000	\$1,100,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project Status:

Water Resources - Sewer

Division: Sewer Category: 2,3 Number: 8541

Title: Sewer Lift Station Generators

Project Description:

Natural gas powered generators are to be installed at the major sewer lift stations. These generators will provide power for pump operation during electrical power failure (hurricanes and ice storms) as required by the city's National Pollution Discharge Elimination System (NPDES) permit thus preventing sewage spills from the pump stations. Generators may also be used for elec. load management. Additional installations will be at Cokey Road, Fenner Road, Deer Run and other sewer lift stations. A portable unit will also be acquired to support the remaining stations as needed. Funds assume installing two generators per year.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction	\$5,000	\$5,000	\$5,000	\$15,000	\$15,000	\$15,000	\$55,000
Equipment/Furnishing	\$25,000	\$25,000	\$40,000	\$45,000	\$45,000	\$45,000	\$200,000
TOTAL	\$30,000	\$30,000	\$45,000	\$60,000	\$60,000	\$60,000	\$255,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$30,000	\$30,000	\$45,000	\$60,000	\$60,000	\$60,000	\$255,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$30,000	\$30,000	\$45,000	\$60,000	\$60,000	\$60,000	\$255,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Natural Hazards Element of the Comprehensive Plan; Strategy A-6 in that it provides for evaluation of the vulnerability to flooding or loss of power as a factor in determining CIP improvements or changes.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 2/3 Number: 8541

Title: Sharpsburg Collection Upgrade

Project Description:

Funds for this project will be used to construct a flow equalization basin and upgrade the pump station that serves the Town of Sharpsburg. Due to infiltration problems in the Town of Sharpsburg system, the sewer discharge from the Town exceeds the maximum permitted amount. During these events the amount of flow pumped from this station has adverse impacts on the City's system downstream of the pump station. This project was recommended in the Sewer Master Plan. The town of Sharpsburg would be expected to pay one half of the cost of this project.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction					\$330,000	\$570,000	\$900,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$0	\$330,000	\$570,000	\$900,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt					\$165,000	\$285,000	\$450,000
Capital Reserves							\$0
Grants/Other					\$165,000	\$285,000	\$450,000
TOTAL	\$0	\$0	\$0	\$0	\$330,000	\$570,000	\$900,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Natural Hazards Element of the Comprehensive Plan; Strategy A-6 in that it provides for evaluation of the vulnerability to flooding or loss of power as a factor in determining CIP improvements or changes. It also is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-1 in that it provides for utility master planning for expansion and maintenance needs.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 6 Number: 8597

Title: Gold Rock Lift Station Rehab

Project Description:

This project consists of the rehabilitation of the lift station on NC 4 in Gold Rock. With the continued development in the Whitaker Business and Industry center, the pump station must be upgraded to handle additional flow and to meet current NC DENR requirements.

PROJECT	PRIOR YEAR COSTS	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction					\$70,000		\$70,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$0	\$70,000	\$0	\$70,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue					\$70,000		\$70,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$0	\$70,000	\$0	\$70,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-1 in that it provides for utility growth into un-served or underserved areas of Nash and Edgecombe Counties.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 12 Number: 8804

Title: Fenner Rd Lift Sta. Upgrade/ Oversize

Project Description:

This project will provide funds for the upgrade of the pump station on Fenner Road. The pump station needs to be rehabilitated and the pumps enlarged to handle increased flow. This project was recommended in the Sewer Master Plan. Time change is due to increased interest in development along this drainage. It is expected that developer will pay part of cost.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction			\$285,000				\$285,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$285,000	\$0	\$0	\$0	\$285,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue			\$185,000				\$185,000
Debt							\$0
Capital Reserves							\$0
Grants/Other			\$100,000				\$100,000
TOTAL	\$0	\$0	\$285,000	\$0	\$0	\$0	\$285,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective C-1 in that it provides for planning service line extensions and replacement consistent with the Comprehensive Plan.

Project Status:

Water Resources

Division: Sewer Category: 7 Number:

Title: Lift Station SCADA Project

Project Description:

This project will provide for the evaluation, specifications and installation of a supervisory control and data acquisition (SCADA) system for the Sanitary Sewer Lift Stations. This system will provide remote monitoring, data acquisition, as well as other problems such as high water, overheating pumps, fail start, and etc. Presently we have to visit 35 stations seven days a week 365 days per year to meet requirements of our Collections Permit. The SCADA system would provide 24 / 7 monitoring of our stations and save overtime hours, vehicle wear and tear as well as cost of fuel. The SCADA system will provide the capability of more continuous monitoring.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	TOTAL PROJECT COST
Planning/Acquisition		\$ 25,000					\$ 25,000
Construction							\$0
Equipment/Furnishing		\$ 35,000	\$ 50,000	\$ 50,000			\$ 135,000
TOTAL	\$0	\$60,000	\$50,000	\$50,000	\$0	\$0	\$ 160,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue		\$ 60,000	\$ 50,000	\$ 50,000			\$ 160,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$ 60,000	\$ 50,000	\$ 50,000	\$0	\$0	\$ 160,000

Estimated Annual Operations Start up \$ - Recurring \$ -

Justification:

Would assist us in better monitoring of our Sanitary Sewer Lift Stations, which is required by our Sanitary Sewer Collections permit. This would help prevent SSO's, thus decreasing possibilities of fines.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 7 Number: 8551

Title: Sewer Rehabilitation Program

Project Description:

This project will continue the Infiltration/Inflow reduction program currently in progress through renovation and repairs to old sewer system to reduce groundwater infiltration and stormwater inflow. These funds are used for purchase of replacement piping, contracting of grouting services, and other ongoing rehabilitation projects.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning							\$0
Construction	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
Equipment/Furnishing							\$0
TOTAL	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-3 in that it provides for sewer line upgrades and replacement to minimize overflows and infiltration in wet weather, minimizing the chance for treatment plant overloading.

Project Status:

Funds this year are being used for piping replacement.

Water Resources - Sewer

Division: Sewer Services Category: 6

Number: 8521

Title: Equipment Replacement - Sewer

Project Description:

Funding for this project is intended to schedule large equipment needing replacement. Such equipment includes rubber-tire backhoes, tracked backhoe, dump trucks, bulldozers, and a sewer jet. Replacement is scheduled from data compiled by the Public Works Department.

EQUIPMENT	N/R	PRIOR YEAR	2006-07	2007-08	2008-09	2009-10	2010-11	2007-11
		COST	BUDGET	PLAN	PLAN	PLAN	PLAN	PLAN TOTAL
Rubber Tire Backhoe	R		\$65,000		\$65,000		\$70,000	\$200,000
TV Truck				\$145,000				\$145,000
Loader	R				\$90,000			\$90,000
Sewer Jet/Jet Vac	R					\$340,000		\$340,000
Dump Trucks	R	\$65,000	\$80,000	\$65,000				\$145,000
Bulldozer	R						\$85,000	\$85,000
TOTAL		\$65,000	\$145,000	\$210,000	\$155,000	\$340,000	\$155,000	\$1,005,000
FUNDING SOURCE						\$0		\$0
Current Revenue						\$0		\$0
Enterprise Revenue		\$65,000	\$145,000	\$65,000	\$155,000	\$0	\$155,000	\$520,000
Debt				\$145,000	\$0	\$340,000		\$485,000
Capital Reserves						\$0		\$0
Grants/Other								\$0
TOTAL		\$65,000	\$145,000	\$210,000	\$155,000	\$340,000	\$155,000	\$1,005,000

N/R - New or Replacement

Water Resources - Sewer

Division: Sewer Category: 7 Number: 8500 / 8800

Title: Equipment Storage Sheds

Project Description:

This project will provide storage for equipment used on the Wastewater Treatment Plant land application site (2005-06). Sheds will be added to existing storage buildings to provide equipment storage and security for Water Resources equipment and vehicles.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning							\$0
Construction		\$0			\$90,000		\$90,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$0	\$90,000	\$0	\$90,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue		\$0					\$0
Debt		\$0			\$90,000		\$90,000
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$0	\$90,000	\$0	\$90,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective B-3 in that it updates the CIP, to continue to providing quality utility service .

Project Status:

Water Resources - Sewer

Division: Sewer Category: 7 Number: 8581

Title: Manhole Rehabilitation Program - Sewer

Project Description:

This project involves the rehabilitation of deteriorated brick sewer manholes and raising manholes to above the 100 year flood line. The manholes to be replaced are leaking and may be structurally unsound. Through a replacement schedule, these manholes will be repaired or replaced and raised to above the 100-year flood elevation. Other manholes will be lined to reduce deterioration from sewer gasses and to minimize leakage of groundwater through the manhole walls.

PROJECT	PRIOR YEAR COAT	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning							\$0
Construction	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
Equipment/Furnishing							\$0
TOTAL	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-3 in that it provides for sewer line upgrades and replacement to minimize overflows and infiltration in wet weather, minimizing the chance for treatment plant overloading.

Project Status:

Work this year is concentrated on manholes along the Tar River and Stoney Creek.

Water Resources - Sewer

Division: Sewer Category: 7 Number: 8555

Title: NC-97 Outfall Evaluation

Project Description:

This project will provide funds for the evaluation of the NC-97 outfall. This outfall, installed in 1980-81, extends from the Fire Training Grounds to the Wastewater Treatment Plant thru the NC-97 Lift Station. It carries the wastewater from the city, Nashville and Sharpsburg to the treatment plant.

Evaluation of this outfall for inflow and infiltration will provide a measure of what next steps should be taken to reduce I/I along the river and or Stoney Creek.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction							\$0
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue							\$0
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-3 in that it provides for sewer line upgrades and replacement to minimize overflows and infiltration in wet weather, minimizing the chance for treatment plant overloading.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 11 Number: 8830

Title: Water Quality Evaluation

Project Description:

The objective of this project is to assess current water-quality conditions in the Tur River Reservoir and selected tributaries and establish a database to document changes in these conditions. This database will be used in defending programs designed to support the efficient operation of the Rocky Mount Regional Wastewater Treatment plant.

The treatment plant operates on a river classified as nutrient sensitive. The reservoir area presently is, however, the fastest growing development area of Nash County with twenty-seven separate subdivisions in various stages of development along its banks. These developments all currently use septic tanks for waste disposal. In addition, the number of large animal operations using land application of wastes continues to increase. These operations present the increasing possibility of non-point source pollutants entering the river. The proposed water quality evaluation will establish a base-line to ward off claims of contamination from the treatment plant. Costs associated with this project will be shared with the United States Geological Survey.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition	\$0	\$40,000	\$50,000	\$50,000	\$50,000		\$190,000
Construction							\$0
Equipment/Furnishing							\$0
TOTAL	\$0	\$40,000	\$50,000	\$50,000	\$50,000	\$0	\$190,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue	\$0	\$40,000	\$50,000	\$50,000	\$50,000		\$190,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$40,000	\$50,000	\$50,000	\$50,000	\$0	\$190,000

Estimated Annual Oper Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-2 in that it provides for insuring regulatory permit compliance.

Project Status:

Water Resources - Sewer

Division: Sewer Category: 4 Number:

Title: Total Organic Carbon Analyzer

Project Description:

This project proposes to replace the water plant Total Organic Carbon (TOC) analyzer. TOC analysis is vital to determining the level of pretreatment attained in order to minimize THM and HAA compounds.

PROJECT	PRIOR YEAR COST	2006-07 BUDGET	2007-08 PLAN	2008-09 PLAN	2009-10 PLAN	2010-11 PLAN	2007-11 PLAN TOTAL
Planning/Acquisition							\$0
Construction				\$50,000			\$50,000
Equipment/Furnishing							\$0
TOTAL	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
FUNDING SOURCE							
Current Revenue							\$0
Enterprise Revenue				\$50,000			\$50,000
Debt							\$0
Capital Reserves							\$0
Grants/Other							\$0
TOTAL	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000

Estimated Annual Opera Start up \$ - Recurring \$ -

Justification:

Project is consistent with the Community Facilities Section of the Comprehensive Plan; Objective D-2 in that it provides for insuring regulatory permit compliance.

Project Status:

This project has been completed.